Reserve

App F IX 4

Previous References 1928 (me)

File No 68-28

Serial Nos 5, 9216

Later References

General and Revenue Secretariat.

Serial Nos

Part B for March 29

SUBJECT

Estimate for Rs 5 000/- for Construction additional fee stalls in Vane Race meeting

16 Do. The President met Messrs. the Chief Engineer and the Comptroller No L 6106-8/d 18 3 29

Sanctions the estimate the cost being met by the amount realised by the sale of Stable vouchers

HS 21/3/29

12694 App. III—1

General Revenue Secretariat

Mt File No 68 of 1928

Serial No 5

PWD I

64/C.M.

Letter no MT 127 dt 13th Sept 1928 from the President, Municipal Council Mysore submitting for sanction an estimate amounting to Rs 9500/- for constructing daily fees stalls at Vani Vilas market Mysore

The scheme is one of remunerative nature. The Municipal Council has proposed to sell the Mysore State Loan Bonds and receive the amount on remunerative schemes. The cost of this work is proposed to be met out of that amount. The estimate & plan may be sent to the Chief Engineer for professional check pertaining

Clk 19/9

Forwarded with Compliments to the Chief Engineer for scrutiny and early return

CHIEF SECRETARY 22 SEP 1928

L 93

22/9/28

PE—Clerk Sheet

29.9.28

WD 01714—GPB—30 000—18-4-28

B O

General and Revenue Secretariat

2nd File No 68 of 192 8

Serial No	
PWD II	9

Letter no 1211 dt 3 Jan 1929 from the President, municipality requesting sanction to a modified estimate for Rs 5,500/- for constructing daily fee stalls in the Vanniyar Uchi market

The Connected file was forwarded to the Chief Engineer for the scrutiny of estimates on 26 9 1928 The same has not been returned If approved a copy of this letter will be forwarded to the C E in Contingencies for returning the previous papers with proposals re the revised estimate

15/1/29

Forwarded unofficially to the Chief Engineer for favour of returning the previous papers with proposals re the revised estimates

B O

(Sd) T K Sundaram By

16/1/29 for Chief Secretary to Govt

P T O

NOTE—Contn sheet

Public Works Secretariat | File No 681 of 1928

Serial No

Wt no 131/Pwd
11/2/29

CHIEF SECRETARY
11 FEB 1929

PWD II

DEWAN'S-OFFICE
14 MAR 1929
No 4126

5 Returned, with compliments

2 The modified estimate is herewith forwarded after scrutiny and may be sanctioned

3 A copy of the Resolution of the Municipal Council approving the estimate, received from the President, Municipal Council, Mysore City, as also a copy of his letter No 1210 dated the 5th January 1929 on the subject are herewith forwarded

4 The Chief Secretariat file on the subject, together with the original estimate received with U O No 143 dated the 27th September 1928, is herewith returned

J M S Bliss 822
Chief Engineer of Mysore

IRR

6

6 Dsg
Put up a draft G.O sanctioning and arranging
No paper put up
IRR
ordered
JD

A draft G O is submitted herewith
The modified estimate is for Rs 5500/- The amount is to be met out of the money realised by the Mal Council by the sale of State Loan Bond
Ch 12/2

Chitnis 13/2

Secretary

FEB

Note—Contn sheet No 678

Secretary Member 15/2

WD 365—GBP—3000—31 5 28

MS 14-2-29 Dewan 13/3 15/3 15/3

General and Revenue Secretariat

File No 68 of 1928

Serial No 16

To

The Prohibition Member
The Comptroller
The Chief Engineer
Sanction the estimate

GEN & REV SECTT
19 MAR 1928
L S

NOTE—Contn Sheet

WD 01714—GPB—30,000—18-4 28

No Mr T 127
Enc Two Estimates
Two plans –
Two Ml Comparative statements
and Two Reports

OFFICE OF THE PRESIDENT
CITY MUNICIPAL COUNCIL MYSORE

Dated 13th September 1928

From T G Rama Iyer, Esq., B A.,
President City Municipal Council
MYSORE

1269

To
The Chief Secretary to the Government
of His Highness the Maharaja of Mysore
Bangalore

CHIEF SECRETARY
5 SEP 1928

Ml 68-28-5

Sir

I have the honour to forward herewith an estimate amounting to Rs 9 500 for constructing daily fees stalls at Vani Vilasa Market Mysore as sanctioned on the Municipal Council at their meeting held 25th August 1928 and to request that you may be so good as to obtain sanction of Government thereto

The report accompanying the estimates and plans in duplicate explains the necessity for the work on the details of construction

Copy of the Municipal Council's Resolution thereon is append

I have the honour to be
Sir
Your most obedient servant

President

PVR

b

Proceedings of the 2nd (Ordinary) meeting of the City Municipal Council, Mysore, held in the Council Chamber on Saturday the 25th August 1928 at 8 A M.

---

x x x

108 Estimate for improvement and extension of markets, out of which items totalling up to Rs 30 000 may be selected for being worked out, out of the proceeds of the loan bonds

x x x

(d) Estimate for Rs 9,500 for constructing daily fees stalls in Vani Vilas Market

Resolution- Sanctioned

x x x

x x x

Sd/-T G Rama Iyer

President

"Copy"

President

Report to accompany the estimate for the construction of daily fee stalls in Vani Vilas Market

---

Amount of estimate Rs 9 500

The necessity for the construction of stalls for vegetables etc in Krishnaraja Mohalla has been keenly felt for a long time At present the vegetable sellers are occupying the footpath and even the road side near Vani Vilas Market for want of suitable accommodation for them The sale of vegetables on the road side not only hinders traffic but is also most insanitary as all the dust from the road will be on the green vegetables It is now proposed to construct thirty five stalls ~~in~~ with terraced roof, inside the Vani Vilas Market at a cost of Rs 9 500 The scheme is a remunerative one as an outturn of 15% can be expected on the outlay

The cost may be met out of the amount realised by the sale of the State Loan Bonds

The rates provided are the correct ones The estimate may be sanctioned early

A Ramachandra Rao
Municipal Engineer

mc 68-28-96

No GTNo 1214
Enc

OFFICE OF THE PRESIDENT
CITY MUNICIPAL COUNCIL MYSORE

Dated 5th January 1929

GEN & REV SECTT
12 JAN 1929
LSC

CHIEF SEC
11 JAN 1929

From

T G RAMA IYER Esq L A
President City Municipal Council
MYSORE

To

The Chief Secretary to the Government of
His highness the Maharaja of Mysore
BANGALOR

mc
5/2/29

SIR,

In continuation of this Office letter No 127 dated 13th September 1928 forwarding an estimate for Rs 9 500/- for constructing daily fee stalls in the Vani Vilasa Market for sanction of Government I have the honour to state that a modified estimate for Rs 5 500/- for the same has this day been forwarded to the Chief Engineer for favour of scrutiny and early transmission to Government I would therefore request you to kindly treat the original estimate already submitted as superseded

I have the honour to be
Sir
Your most obedient servant

PRESIDENT

The Connected file was forwarded to the Chief Engineer for scrutiny of the estimates on 26.9.1928 The same has not yet been returned if approved a copy of this letter will be forwarded to the Chief Engineer in continuation - for which the papers with reference to the revised estimate

forwarded unofficially to Mr Thuse for approval

18-1-29 with proposals

by Mr Subramanyam

Chief Engineer

Mr Thuse is kept in the Cate register sheet

9

Letter No 1210 dated the 5th January 1929 from the President, City Municipal Council, Mysore, to the Chief Engineer of Mysore

---

In modification of the estimate for Rs 9,500 for constructing daily fee stalls in the Vani Vilas Market, submitted to Government for sanction in this office letter No 127 dated the 13th September 1928, I have the honour to forward herewith an estimate amounting to Rs 5,500 for the above, for favour of scrutiny and very early transmission to the Chief Secretary for obtaining sanctio of Government

The modified proposal made will answer the purpose equally well, and the same has been sanctioned by the Municipal Council at their meeting held on 24th November 1928 A copy of the Council's Resolution is also forwarded for reference

Being a remunerative one, it is proposed to work it out of the proceeds of the loan bonds

---

"True Copy"

For Chief Engineer of Mysore

10

Report to accompany the estimate for constructing daily fee stalls in Vani Vilas Market

---

In modification of the estimate for Rs 9 500/- for the above submitted to Government for sanction, the present estimate is prepared

As it is found that a lighter roof would answer the purpose equally well it is proposed to construct the stall with 1st class mangalore tiled roofing instead of terrace The flooring is of Kadappa slabs and the roof is supported by finely dressed stone pillars on one side and on stone brackets on the other The cost of the present estimate comes to Rs 5 500/- resulting in a savings of Rs 4,000/-

The proposal made may kindly be approved and the estimate sanctioned The cost of the work will be met out of the proceeds of the loan bonds

G Ramaiah
Municipal Engineer
GR

Mysore City Municipality

12

Estimate for the probable cost of Constructing Daily fee stalls on Vani Vilas market

Particulars of work	No	Demensions in feet L	B	D	Contents	Total	Unit	Rate Rs	a	p	Amount
Earthwork : Excavation											
Foundation											
Behind Angadi beedi Stalls	1	109	1 7/8	2 1/2	✓ 511						
Right and left of main pas	1x2	16 1/4	1 7/8	2 1/2	✓ 152						
Behind Vani Vilas road stalls	1	74 1/2	1 7/8	2 1/2	✓ 349						
	1	89	1 7/8	2 1/2	✓ 417						
End & cross walls	1x10	8 5/16	1 7/8	2 1/2	✓ ~~344~~ 390						
By the side of main passage	1x2	10 5/16	1 7/8	2 1/2	✓ 97						
		Total			~~1837~~ 1916	~~68~~ 70	c yd	0	5	0	✓ 21
Chunam mortar Concrete											
Foundation											
As per earthwork	1	109	1 7/8	1	✓ 204						
	1x2	16 1/4	1 7/8	1	✓ 61						
	1	74 1/2	1 7/8	1	✓ 140						
	1	89	1 7/8	1	✓ 167						
	1x10	8 5/16	1 7/8	1	✓ ~~38~~ 156						
		Total			~~766~~ 728	~~766~~ 728	c ft	0	3	6	~~168~~ 160
Burnt brick in mortar											
Foundation & basement											
Behind Angadi beedi stalls	1	109 1/2	1 1/2	2 1/2	✓ 410						
On either side of passage	1x2	16	1 1/2	2 1/2	✓ 120						
Behind Vani vilas road stalls	1	74	1 1/2	2 1/2	✓ 278						
	1	88 1/2	1 1/2	2 1/2	✓ 332						
End and cross walls	1x10	8 1/2	1 1/2	2 1/2	✓ 319						
	1x2	10 1/2	1 1/2	2 1/2	✓ 79						
		Total			1538						
Deduct for											
Slabs over retaining wall	1	40 3/12	1 1/2	3/8	227						
		Balance			1311	✓ 1311	c ft	0	4	0	✓ 328
Brick in mortar - Superstructure											
End cross walls	1x2	10	1 1/8	11	✓ 248						

c o

5 [illegible]

Report

Memo of Estimate

1 Budget Head

2 Budjet allotment { Total / Availabl

3 Name of Work

4 Amount of Estimate

President s order

Sanctioned for Rupees

by Resolution

No Dated

Comm tte
C u l

President

Mysore City Municipality

13

Estimate for the probable cost of

Particulars of work	No	Demensions in feet L	B	D	Contents	Total	Unit	Rate Rs	a	p	Amount
					248 13						509
Between joists	251	1	3/4	1/2	94						
Above cross beams at steps	1x8	8 1/2	1/8	1 1/2	115						
	1x2	10 1/2	1/8	1 1/2	35						
		Total			492	492	cft	0	4	6	138
Semicircular Archwork over wall newly filled up	1	4 1/2 x 23/4 x 1 1/2 / 2			16	16	cft	0	7	0	7
Boring holes in walls for fixing joists	260	-	-		260						
for cross beams	10		-		10						
		Total			270	270	Each	0	3	0	51
Indepah slab in place of wall plate for joists	260	1	1 3/4 / 1 3/4	-	130 / 65						
	10	1	3/4		8						
		Total			73 / 138	138 / 73	Sqm	20	0	0	28 / 14
"Chunam plastering"											
End walls	2x2	10	9/4	-	370						
Over Breastsummer	260	1	1/2	-	130						
Over cross beams	2x10	10	3/4		150						
Basement alround	1	392	3/4		294						
		Total			944	944	Sqm	3	8	0	33
5" to 6 burnt stone slabs 2 feet dressed & fixed over retaining wall	1	405 1/2	1 1/2		605						
End + cross walls	10	8 3/4	1/2	-	131						
	2	10 3/4	1/2		32						
		Total			768	768	Sft	0	14	0	672
'1x1' one foot square stone pillars with capitals & bases neatly dressed & edges chamferred	36	(1x1x9 1/2')			36	36	Each	40	0	0	1440

Report

Memo of Estimate

1 Budget Head

2 Budjet allotment { Total / Availabl-

3 Name of Work

4 Amount of Estimate

President s order

Sanctioned for Rupees

by Resolution

No Dated

Comm ttee
Counc l

President

Mysore City Municipality

14

Estimate for the probable cost of

Particulars of work	No	Demensions in feet L	B	D	Contents	Total	Unit	Rate Rs	a	p	Amount
					~~B~~ F						2878 ~~2872~~
Teakwood wrought & put up											
Breastsummer abroad	1	31½	6	8	105						
Joists including Joists to the l & R	260	12½	3	6"	406						
Cross joists	2x2	8	3"	6"	4						
Cross beams	1x8	11	6	9	33						
	1x2	13	6"	9	10						
		Total			558	558	c ft	5	0	0	2790
Pucka terrace with 2 courses of flat tiles etc Complete	5	45	11½	-	2588						
	1	29	11½	-	334						
	1x2	17½	11½		403						
	1	22½	11½		259						
		Total			3584	35 84	Sqr	40	0	0	1434
Cardinary ~~Ornamental~~ parapet wall with bannels in chunam ~~pedestals~~ etc Complete 2½' high											
- do -	1	314	-	-	314						
Cross	5	9	-		45						
		Total			359	359	Rft	1	4	0	449
9' Teakwood fave board	1	371	-	-	371	371	Rft	0	10	0	232
9" Cornice abroad	1	376	-	-	376	376	Rft	0	12	0	282
Zinc rain water pipe	1x3	36	-		108	108	Rft	0	6	0	41
Colour washing -											
Parapet wall abroad including Cornice	1x2	359	3½		2513						
Cross wall	2x2	10	10		400						
		Total			2913	29 13	Sqr	0	8	0	15
Flooring with Cudapah slabs over 3 Concrete etc Complete	5	42	8½		1785						
	1	27½	8½	-	234						
	2	16	8½	-	272						
	1	21	8½	-	178	24 69	Sqr	3	0	0	740
					Total 2469						
						Rs.		0	0		~~8865~~

Report

Memo of Estimate

1 Budget Head

2 Budjet allotment { Total / Availabl

3 Name of Work

4 Amount of Estimate

President s orde

Sanctioned for Rupees ... ..

by Resolution

No Dated .. ..

C mm ttee
C un il s

President

Mysore City Municipality

15

Estimate for the probable cost of _____

Particulars of work	No	Demensions in feet L	B	D	Contents	Total	Unit	Rate Rs	a	p	Amount
Chocolate painting & Coats											~~2705~~ 1933
Breastsummer	1	3¼	1⅞		389	✓					
Joists	268	11½	1¼	-	3738	✓					
	4	7	1¼		35	✓					
Eave board	1	~~376~~ 371	1½		556 564	✓					
Cross beams	8	8½	1¾	-	119	✓					
	2	10½	1¾	-	37	✓					
			Total		~~6082~~ 5074	~~6082~~ 5074	Sqr	3	8	0	178 ✓
							Total				~~4039~~ 4033
					Contingencies with temporary Sh						~~461~~ 467
						Grand Total Rs					9500 ✓

Checked
15-10-26

D. Sreenivasa Rao
Municipal Engineer
12-9-26

Chairman
President

Report

Memo of Estimate

1 Budget Head

2 Budjet allotment { Total / Availabl

3 Name of Work

4 Amount of Estimate

President s order

Sanctioned for Rupees

by Resolution

No Dated

Comm ttee
Council

President

16.

Report to accompany the estimate for constructing daily fee stalls in Vani Vilas Market

---

In modification of the estimate for Rs 9 500/- for the above submitted to Government for sanction the present estimate is prepared

As it is found that a slighter roof would answer the purpose equally well it is proposed to construct the stall with 1st class Bangalore tiled roofing instead of terrace the flooring is of Kadappa slabs and the roof is supported by finely dressed stone pillars on one side and on stone brackets on the other The cost of the present estimate comes to Rs 5,500/- resulting in a savings of Rs 4 000/-

The proposal made may kindly be approved and the estimate sanctioned The cost of the work will be met out of the proceeds of the loan bonds

Municipal Engineer

GR

CVN

Mysore City Municipality

Estimate for the probable cost of Constructing daily fee stalls in 17
Vani Vilas market - Mysore

Particulars of work	No	Demensions in feet L	B	D	Contents	Total	Unit	Rate Rs	a	p	Amount
Earthwork excavation & filling in basement -											
Behind Vani Vilas Rd Longl Wall of Stall	1	89 3/8	2	2½	447						
	1	74	2	2½	370						
Right & left of main Passag do	2	17	2	2½	170						
Behind Angadi beede - do -	1	110 3/8	2	2½	552						
End & Cross walls - do -	2x4	6½	2	2½	260						
		Total		c ft	1799	67	c yd	0	4	6	19
Chunam mortar Concrete -											
Behind V V Road Longl Wall of Stall	1	89 3/8	2	1	179						
	1	74	2	1	148						
Right and left of main passag do	2	17	2	1	68						
Behind Angadi beede - do -	1	110 3/8	2	1	221						
End and Cross walls - do -	2x4	6½	2	1	104						
		Total		c ft	720	720	c ft	0	3	6	158
Burnt brick in mortar											
Foundn Behind V V Rd Longl Wall	1	88 7/8	1½	1½	200						
	1	74	1½	1½	167						
Right & left of main passage do	2	16 3/8	1½	1½	74						
Behind Angadi beede - do -	1	109½	1½	1½	248						
End and cross walls	2x4	6 7/8	1½	1½	124						
Basement Behind V V Rd Longl Wall	1	88½	1 1/8	1	100						
	1	74	1 1/8	1	83						
Right & left of main passage do	2	16	1 1/8	1	36						
Behind Angadi beede - do -	1	109½	1 1/8	1	123						
End and Cross walls	2x4	7 1/8	1 1/8	1	68						
		Total			1223						
Deduct for retaining slab over basement	1	34 6	1 1/8	½	194						
		Balance			1029	1029	c ft	-	4	3	273
								c o			450

Report

Memo of Estimate

1 Budget Head

2 Budjet allotment { Total / Availabl

3 Name of Work

4 Amount of Estimate

President s order

Sanctioned for Rupees .. ....

by Resolution

No Dated .. of Comm ttee / Co cil

President

Mysore City Municipality

Estimate for the probable cost of

Particulars of work	No	Dimensions in feet L	B	D	Contents	Total	Unit	Rate Rs	a	p	Amount
						Brought forward					450
Burnt brick in mortar - Superstructure -											
End + cross walls	2x4	8	3/4	11½ / 2	492	492	C ft	0	4	6	138
Chunam mortar plastering -											
Cross walls + faces	2x8	8½		10¼ av	1394						
Basement alraund	1	356		1	356						
		Total		S ft	1750	1750	Sqrs	3	8	0	61
Bond slabs for old + new walls including boring holes + fixing -											
Cross walls	8x4	1½	3/4		36	36	S ft	0	8	0	18
Burnt stone slabs 5 to 6 2 lines dressed + fixed											
Cover basement including on bc walls	1	348	1½		522	522	S ft	0	13	0	424
Bracket stones with (pre) erection including dressing cutting to shape and fixing in wall complete											
Bracket stone Cork Way	42	(2x1½x6)			42	42	Each	3	0	0	126
Teak woodwork wrought + put up.											
Bressummers V V Roadside on Pillars	1	88½	4"	6	14 73						
Wall side	1	88½	3"	5"	9 22						
on Pillar	1	74	4	6	12 33						
Wall side	1	74	3	5	7 71						
Side of main passag on Pillar	2	16	4	6	5 33						
Wall Side	2	16	3	5	3 33						
Angade beede side on Pillar	1	109	4	6	18 16						
On Wall	1	109	3"	5	11 36						
Common rafters V V Road side 2¼ c/c	40	11	2	4½	27 50 ~~24 44~~						
	33	11	2	4½	22 68 ~~20 17~~						
Side of main passage	2x7	11	2"	4½	9 60 ~~8 56~~						
Angade beede	49	11	2	4½	33 70 ~~29 44~~						
		Total			175 67 ~~165 30~~	1756 7 ~~165 30~~	C ft	5			878 ~~827~~
										C O	~~2065~~ 2095

Report

Memo of Estimate

1 Budget Head

2 Budjet allotment { Total / Availabl

3 Name of Work

4 Amount of Estimate

President s order

Sanctioned for Rupees .. ..

.. by Resolution

No Dated .. of .. C mm ttee / Counc l

President

Mysore City Municipality

9

Estimate for the probable cost of

Particulars of work	No	Demensions in feet L	B	D	Contents	Total	Unit	Rate Rs	a	p	Amount
						Brought forward					2044 2095
Roofing with first class Mangalore tiles including teak reepers etc Complete											
Vanivilas road side	1	88½	10½	-	929						
	1	74	10½	-	777						
Main passage	2	16	10½	-	336						
Angadi beede	1	109½	10½	-	1152 1155						
		Total in S.ft			3192 3177	3192 3177	Sqm	30	0	0	958 953
Thumam border alround on S.C walls											
Alround	1	380			380	380	Rft	0	3	6	83
Raw or Burnt stone pillars two lines dressed, edges chamferred including base & capital complete											
Stone pillars	42	(8 x ½ x ½)			42	42	Each	18	0	0	756
Cudapah slab flooring (1" to 1¼) on 3" concrete bed & Cement pointing Complete											
V V Road side	1	84¼	6¾		582						
	1	av 77	6¾		520						
Side of main passage	2	av 18	6¾	-	243 246						
Angadi beede	1	109½	6¾		739						
		Total S.ft			2084 2107	2084 2107	Sqm	32	0	0	666 672
Teakwood Eave board ordinary including painting											
alround (9)	1	305		-	305	305	Rft	0	8	0	153
Thocolate painting to woodwork											
Bressummers Rafters etc Reepers etc		Lumpsum			25	25	Sqm	3	8	0	88
						Carried over					4756 4799

Report

Memo of Estimate

1 Budget Head

2 Budjet allotment { Total / Availabl

3 Name of Work

4 Amount of Estimate

President s order

Sanctioned for Rupees ..

by Resolution

No Dated ..

C mm ttee
C un l

President

20

G R S. VI G 31]

SUBJECT

Diary No of l tter replied to

General and Revenue Secretariat

( )

the *192*

Date of issue 18/3/29

Signed by mr? 228 2yer

May this be

i Printed ?

ii treated as a standi ng order ?

iii published in the Gazette English Part ?

iv translated ?

v placed at the disposal of the p ess ?

vi publ shed in the Ga ette Kannada Part ?

Section m(1

File No 68 - 28

Serial No 16

Proceedings of the Government of His Highness the Maharaja of Mysore

Read— Correspondence ending with W O No 131/P W D dt 11 2 192[illegible] from the Chief Engineer submitting for sanction ~~forwarded by the Board~~ a modified estimate * for Rs 55001- for the Constructing daily stalls in the Vani Vilas Market Mysore city forwarded by the President, Municipal Council

Order Thereon No L 6106-8 18/3/29 encl plans &c

The estimates are approved, the cost as proposed being met out of the amount realised by the Municipal Council by the sale of the State Loan Bonds

CSK 18/3

The President, Mel Mysore
The Comptroller with the estimate and plan
The Chief Engineer

18/3 NM

Chief Secy to G

List of enclosures

Copied by

Examined by

WD 1888—GPB—1 000 00—21 12-21

Exhn

21

Proceedings of the Government of His Highness the Maharaja of Mysore.

R e a d :-

Correspondence ending with U.O.No.131/T.W.D.dated 11th February 1929 from the Chief Engineer submitting for sanction a modified estimate for Rs.5,500/- for constructing daily fee stalls in the Vani Vilas Market, Mysore City forwarded by the President, Municipal Council, Mysore.

Order No.L. 6106-8/ me 68 28-16

Dated, Bangalore, the 18th March 1929.

The estimate is approved, the cost being met as proposed out of the amount realised by the Municipal Council by the sale of the State Loan Bonds.

For Chief Secretary to Government.

To

The President, City Municipal Council, Mysore with estimate and plan.

The Comptroller, Mysore Government.

The Chief Engineer of Mysore

mk 4.